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Numerical Simulations of Merging Clusters of Galaxies. *Kurt Roettiger, Chris Loken, & Jack O. Burns*. 109, 307 (1997)

An Axisymmetric, Radiative Bow Shock Model with a Realistic Treatment of Ionization and Cooling. *Alejandro C. Raga, Garrelt Mellema, & Peter Lundqvist*. 109, 517 (1997)

MOLECULAR DATA

A High-Resolution ^{18}O Isotope Study in the Vacuum Ultraviolet of the $A^1\Pi \rightarrow X^1\Sigma^+$ 4th Positive System of CO. *L. M. Beaty, V. D. Braun, K. P. Huber, & A. C. Le Floch*. 109, 269 (1997)

POLARIZATION

Radio Continuum Imaging of High-Redshift Radio Galaxies. *C. L. Carilli, H. J. A. Röttgering, R. van Ojik, G. K. Miley, & W. J. M. van Breugel*. 109, 1 (1997)

RADIATION MECHANISMS: NONTHERMAL

Nonthermal Compton and Synchrotron Processes in the Jets of Active Galactic Nuclei. *Charles D. Dermer, Steven J. Sturmer, & Reinhard Schlickeiser*. 109, 103 (1997)

The Survey of Low-Mass X-Ray Binaries with the *Einstein Observatory* Solid-State Spectrometer and Monitor Proportional Counter. *D. J. Christian & J. H. Swank*. 109, 177 (1997)

RADIATIVE TRANSFER

An Axisymmetric, Radiative Bow Shock Model with a Realistic Treatment of Ionization and Cooling. *Alejandro C. Raga, Garrelt Mellema, & Peter Lundqvist*. 109, 517 (1997)

RADIO CONTINUUM: GALAXIES

Radio Continuum Imaging of High-Redshift Radio Galaxies. *C. L. Carilli, H. J. A. Röttgering, R. van Ojik, G. K. Miley, & W. J. M. van Breugel*. 109, 1 (1997)

Deep Imaging of the Field of the High-Redshift Radio Source 4C 23.56. *Graham P. Knopp & K. C. Chambers*. 109, 367 (1997)

A Survey of Compact Radio Sources in NGC 6946. *C. Lacey, N. Duric, & W. M. Goss*. 109, 417 (1997)

RADIO LINES: ISM

The Anticenter Shell and the Anticenter Chain. *Christopher M. Tamanaha*. 109, 139 (1997)

RADIO LINES: STARS

Main-Line OH Observations of the Arecibo Set of OH/IR Stars. *B. M. Lewis*. 109, 489 (1997)

SHOCK WAVES

An Axisymmetric, Radiative Bow Shock Model with a Realistic Treatment of Ionization and Cooling. *Alejandro C. Raga, Garrelt Mellema, & Peter Lundqvist*. 109, 517 (1997)

STARS: AGB AND POST-AGB

Main-Line OH Observations of the Arecibo Set of OH/IR Stars. *B. M. Lewis*. 109, 489 (1997)

STARS: BINARIES: CLOSE

The Survey of Low-Mass X-Ray Binaries with the *Einstein Observatory* Solid-State Spectrometer and Monitor Proportional Counter. *D. J. Christian & J. H. Swank*. 109, 177 (1997)

STARS: BINARIES: SYMBIOTIC

The Optical Spectral Line List of RR Telescopii. *F. C. McKenna, F. P. Keenan, N. C. Hambly, C. Allende Prieto, W. R. J. Rolleston, L. H. Aller, & W. A. Feibelman*. 109, 225 (1997)

STARS: INDIVIDUAL**Constellation Name: RR Telescopii**

The Optical Spectral Line List of RR Telescopii. *F. C. McKenna, F. P. Keenan, N. C. Hambly, C. Allende Prieto, W. R. J. Rolleston, L. H. Aller, & W. A. Feibelman*. 109, 225 (1997)

STARS: PRE-MAIN-SEQUENCE

An Axisymmetric, Radiative Bow Shock Model with a Realistic Treatment of Ionization and Cooling. *Alejandro C. Raga, Garrelt Mellema, & Peter Lundqvist*. 109, 517 (1997)

SURVEYS

- The Kitt Peak Galaxy Redshift Survey with Multicolor Photometry: Basic Data. *Jeffrey A. Munn, David C. Koo, Richard G. Kron, Steven R. Majewski, Matthew A. Bershad, & John J. Smetanka.* 109, 45 (1997)
- The Survey of Low-Mass X-Ray Binaries with the *Einstein Observatory* Solid-State Spectrometer and Monitor Proportional Counter. *D. J. Christian & J. H. Swank.* 109, 177 (1997)
- Infrared Photometry of 487 Sources in the Inner Regions of NGC 5128 (Centaurus A). *M. Victoria Alonso & Dante Minniti.* 109, 397 (1997)
- A Survey of Compact Radio Sources in NGC 6946. *C. Lacey, N. Duric, & W. M. Goss.* 109, 417 (1997)
- A New Milky Way Concordance. *Peter J. Barnes & Philip C. Myers.* 109, 461 (1997)
- Main-Line OH Observations of the Arecibo Set of OH/IR Stars. *B. M.*

Lewis. 109, 489 (1997)

ULTRAVIOLET: GENERAL

- A High-Resolution ^{18}O Isotope Study in the Vacuum Ultraviolet of the $A^1\Pi \rightarrow X^1\Sigma^+$ 4th Positive System of CO. *L. M. Beaty, V. D. Braun, K. P. Huber, & A. C. Le Floch.* 109, 269 (1997)

X-RAYS: GALAXIES

- Nonthermal Compton and Synchrotron Processes in the Jets of Active Galactic Nuclei. *Charles D. Dermer, Steven J. Sturmer, & Reinhard Schlickeiser.* 109, 103 (1997)

X-RAYS: STARS

- The Survey of Low-Mass X-Ray Binaries with the *Einstein Observatory* Solid-State Spectrometer and Monitor Proportional Counter. *D. J. Christian & J. H. Swank.* 109, 177 (1997)